

PARAMETER TITLE: Average Encapsulated Microbial Density ($\bar{d}_V(0)$)

VALUE	
UPPER	130/cm ³
ACCEPTABLE	130/cm ³
LOWER	130/cm ³

APPLICATION	
MISSION	All
CATEGORY	III, IV
PLANET	All

PARAMETER DEFINITION: The average density of spores buried inside non-metallic spacecraft material. This value reflects reductions experienced in the manufacture of the basic material but it does not account for any burden reduction during higher level assembly and test.

APPLICABLE SOURCE: Non-metallic portions of the spacecraft.

CONSTRAINTS: If this parameter is used, it must be applied to the total volume of non-metallic material and further subdivisions using source-specific density values $\bar{d}_V^i(0)$ shall not be made.

This value was derived assuming the subsequent use of heat sterilization. If processes are proposed that do not include heat for a Category IV mission, the value must be reassessed to assure its applicability for the proposed usage. It may be used without restriction for Category III mission burden estimates.

REFERENCES: Planetary Quarantine Advisory Panel (PQAP) Review, September 28, 1971, Denver, Colorado.

Planetary Protection Officer

Date